

Title (en)  
TOOL MAGAZINE

Title (de)  
WERKZEUGMAGAZIN

Title (fr)  
MAGASIN D'OUTILS

Publication  
**EP 3061562 A1 20160831 (EN)**

Application  
**EP 14901172 A 20140903**

Priority  
JP 2014073143 W 20140903

Abstract (en)  
A tool magazine includes a magazine arm and a gripper plate. The magazine arm includes a pivotal axis on one end of the magazine arm, and a tool pot on the other end of the magazine arm. The tool pot is configured to hold a tool in a suspended manner. On the gripper plate, a plurality of grippers are disposed in a longitudinal direction of the tool magazine. The plurality of grippers are configured to hold the tool in a suspended manner on a circular arc track on which the tool moves when the magazine arm pivots. The plurality of grippers are open in a tangent direction of the circular arc at a position where the tool is held.

IPC 8 full level  
**B23Q 3/157** (2006.01); **B23Q 3/155** (2006.01)

CPC (source: EP US)  
**B23Q 3/15536** (2016.10 - EP US); **B23Q 3/15773** (2013.01 - EP US); **B23Q 3/15539** (2016.10 - US); **B23Q 2003/15527** (2016.10 - US); **B23Q 2003/1553** (2016.10 - US); **B23Q 2003/15531** (2016.10 - US); **B23Q 2003/155418** (2016.10 - US); **B23Q 2003/155428** (2016.10 - US); **B23Q 2003/155446** (2016.10 - US); **Y10T 483/176** (2015.01 - EP US); **Y10T 483/1771** (2015.01 - EP US); **Y10T 483/1779** (2015.01 - EP US); **Y10T 483/1783** (2015.01 - EP US); **Y10T 483/1809** (2015.01 - EP US); **Y10T 483/1836** (2015.01 - EP US); **Y10T 483/1845** (2015.01 - EP US)

Cited by  
EP4039407A4; DE102022134568A1; DE102022130425A1

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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3061562 A1 20160831**; **EP 3061562 A4 20170301**; **EP 3061562 B1 20180321**; CN 105873720 A 20160817; CN 105873720 B 20170510; JP 5658850 B1 20150128; JP WO2016035158 A1 20170427; US 10377004 B2 20190813; US 2016311075 A1 20161027; WO 2016035158 A1 20160310

DOCDB simple family (application)  
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